

**Amendments to the Specification**

Please amend the paragraph at page 11, lines 5-13 in the following manner:

[0018] The weighting function being created based on the correction angle width index  $\epsilon$  and index F of projection data angle using for back-projection is set so that the weight of the data discontinuity region (weighting factor) turns out smaller than the weight of other region that is equivalent to said data discontinuity. For example, the ~~first~~ second sub weighting function and the second sub weighting function being created by shifting the second sub weighting function by a predetermined phase can be added and normalized.